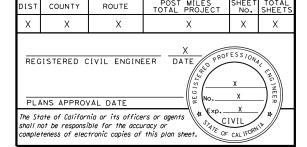
CORNER POLE WITH ATTACHMENTS (NO GUYWIRE)							
BUNDLE TYPE	MAXIMUM	MINIMUM WOOD POLE CLASS	MINIMUM POLE EMBEDMENT DEPTH "E"				
1	50′	H-3	10′				
	100′	H-6	11′				
2	50′	H-4	11′				

SPAN 1 WOOD POLE 45° Max SPAN 2 WITH LINE ANGLE DEVIATION UP TO 45°



DESIGN NOTES:

Design: AASHTO Standard Specifications for Structural Supports for Highway Signs, Luminaires and Traffic Signals, Fifth Edition (LTS-5).

GROUP LOAD COMBINATIONS:

- I Dead Load
- I Dead Load + Wind Load
- II Dead Load + 0.5 (Wind Load) + Ice Load
- IV Fatigue: Not used

LOADING:

Wind Loading: 100 mph (3-second gust)
Wind Recurrence Interval: 10 years
Combined height, exposure, and elevated terrain factor = 1.05
(Exposure C, structure is not located on or over the top half
of a ridge, hill, or escarpment)

Ice Loading: 3.0 psf on surfaces, 0.60 in radial thickness of ice at a unit weight of 60 pcf on bundles

BASIC DESIGN VALUES:

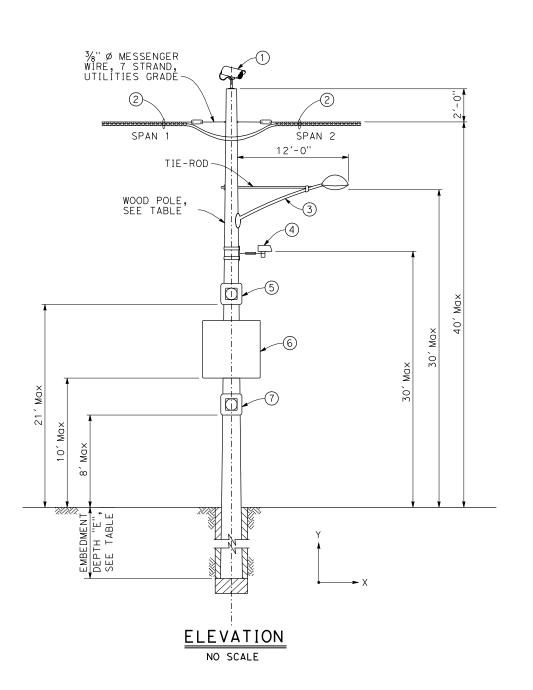
Timber Poles: Fb = 1850 psi Fv = 110 psi Fcp = 230 psi Fc = 950 psi E = 1500 x 10³ psi

DESIGN WIRE BREAKING STRENGTHS:

ASTM A475, Utilities Grade, 7 strand modified by termination efficiency factor of 0.8 $\,$

FOUNDATION DESIGN NOTES:

- 1. Pole embedment depth design is based on Broms' approximate procedure as described in Article 13.6 of AASHTO LTS-5.
- 2. Standard embedment depth is calculated based on level ground assumption (up to slope 1V:4H).
- 3. Embedment depth is calculated based on following soil parameters, Cohesive Soil: Shear strength of soil c = 1500 psf. Cohesionless Soil: Ø = 30 deg, γ = 120 pcf. Soil is assumed to be unsaturated.
- 4. An overload factor of 2.0 and an undercapacity factor of 0.7 were used for safety factor of 2.86.
- 5. If pole is located on or near a steep slope (up to 1H:2V) add 2 feet extra embedment.
- 6. Allowable vertical bearing pressure at the end bearing of poles is 3000 psf at 6 feet or more embedment.



LEGEND:

- (1) CCTV Camera
- (2) Conductors and Messenger-Wire
- (3) Luminaire with Mast Arm
- (4) Vehicle Detection System
- 5 Flashing Beacon 1
- 6 Single Sheet Sign Panel (4' X 4' Max) or Traffic Signal w/ 3 Indicators
- 7 Flashing Beacon 2

NOTES:

- 1. Install attachments shown if indicated on the "Project Plans".
- 2. Bundle for Span 1 and Span 2 must be the same.
- 3. Shorter span length must be at least 95% of longer span length.

	CALIFORNIA	DIVISION OF	X	TEMPORARY WOOD POLE
No. xs18-040 APPROVAL DATE December 2011	DEPARTMENT OF TRANSPORTATION	N ENGINEERING SERVICES	POST MILE X	CORNER POLE WITH ATTACHMENTS
DS OSD 2147A (ENGLISH STANDARD DRAWING "XS" BORDER REV. (02-02-11) ORIGINAL SCALE IN INCHES FOR REDUCED PLANS	0 1 2 3	UNIT: X PROJECT NUMBER & PHASE: X	CONTRACT NO.: X	DISREGARD PRINTS BEARING REVISION DATES SHEET OF X X X W